SOV/138-59-4-9/26

The Preparation of Lacquers (Coating Films) from Polystyrene Residues Obtained During The Manufacture of Synthetic Rubber

The state of the s

University (under the guidance of Professor S.V. Zavgorodniy) are reviewed. The vat residues contain polystyrene, which is used in the manufacture of organic glass, resins, acid resistant vessels and lacquers. authors carried out experiments on their use for the preparation of lacquers and coloured coating compositions and tested the properties of the coatings. that the coatings were light-stable, resistant to the They found action of alkali, alcoholic media, industrial water, concentrated sulphuric acid etc. The polystyrene coatings can also be used in electrical and radio-technical apparatus as they show good electrical insulating properties. The physical and chemical characteristics of the resins are listed in Table 1 and the yield of resins in Table 2. A plant for the separation of the resins from the vat residue was constructed on pilot plant scale (Figure 1). During these experiments, 75 kg of vot residues were processed at a temperature of 20 to 30°C and a pressure of 750 to 745 mm Hg. Distillation was carried out up to 220 to 240 C (750 to 745 mm Hg); a 30 to 40% yield was obtained. Three different compositions

Card 2/3

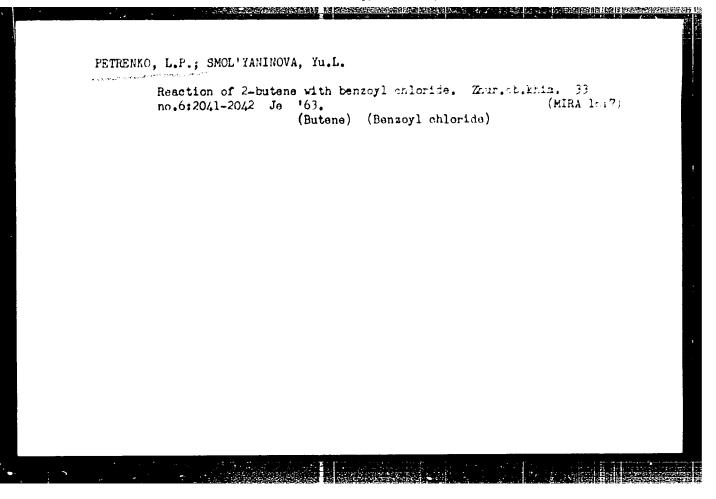
SOV/138-59-4-9/26

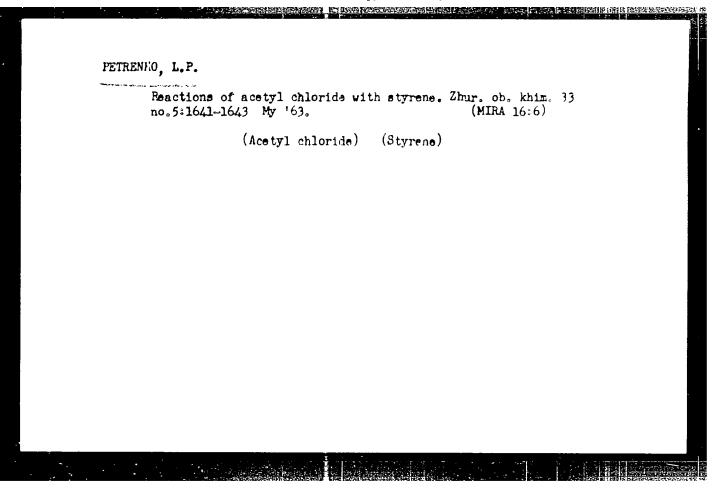
The Preparation of Lacquers (Coating Films) from Polystyrene Residues Obtained During the Manufacture of Synthetic Rubber

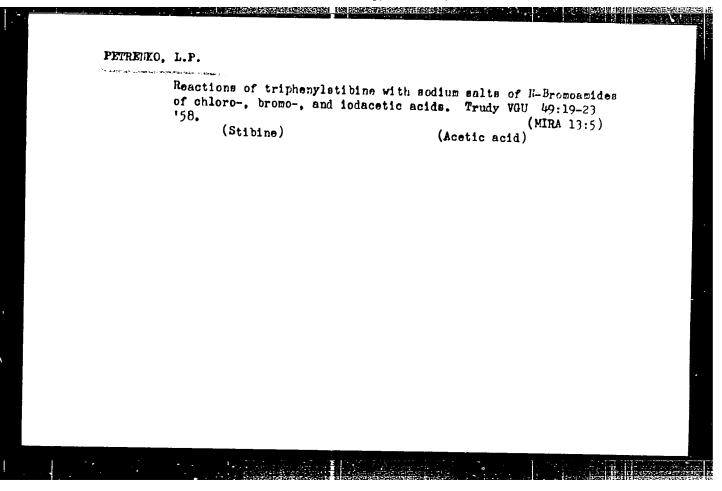
of lacquers are given in Table 3, and similarly the composition of coloured coatings in Table 4. The dependence of the viscosity of the polystyrene lacquer on the temperature is shown in the form of a graph (Figure 2). The Voronezh factory "Khimprodukt" commenced the processing of polystyrene vat residues from synthetic rubber manufacture in 1957, and is at present producing lacquers for the furniture industry and for interior decoration. There are 2 figures and 4 tables.

CONTRACTOR OF THE PROPERTY OF

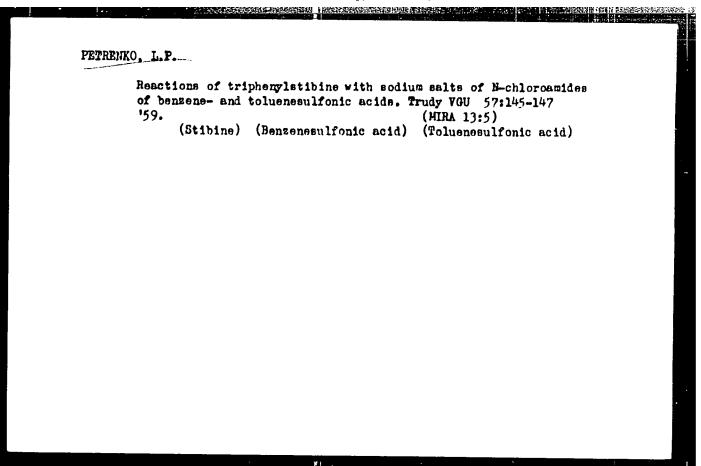
ASSOCIATION: Vorone zhskiy gosudarstvennyy universitet i zavod sintetiche skogo kauchuka im S.M. Kirova (Vorone zh State University and Factory for Synthetic Rubber im S.M. Kirov)







# Reactions of p-, o-, and m-tritolylstibines with sodium salts of in-bromomnides of acetic and chloroacetic acids. Trudy VGU 49: 25-29 '58. (MIRA 13:5) (Stibine) (Acetic acid)



PETRENKU, L.P.

USER/Chemistry - Reaction processes

Card 1/1 : Pub, 151 - 25/37

Authors : Petrenko, L. P.

Title : Reaction of triphenylstibine with sodium salt of N-bromacetamide

Periodical: Zhur. ob. khim. 24/3, 520-521, Mar 1954

Abstract: The reaction of triphenylstibine with sodium salt of N-bromacetamide was investigated at various time intervals, temperatures, in different solutions and with various reagents. Only by adding a small amount of concentrated hydrochloric acid in the role of a catalyst was it possible to obtain the condensation product - triphenylstibineacetimine - (C6H5)3Sb + CH3CONNa BrNaBr + (C6H5)3SbNCCH3. The composition of this compound was confirmed by the formation of derivatives with cupric and mercuric chlorides. Five references: 3-USA; 1-USSR and 1-French (1887-1947).

Institution: State University, Voronezh

Submitted : July 20, 1953

PETRENKO, L.P.

USSR/Organic Chemistry - Synthetic Organic Chemistry

E-2

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4460

Author

Petrenko, L.P.

Inst

: Voronezh University

Title

: Synthesis of Alkylenesilane Chlorides

Orig Pub

: Tr. Voronezhsk. un-ta, 1956, 42, No 2, 41-43

Abstract

: To a solution of CH<sub>2</sub>=CHCH<sub>2</sub>MgBr (from 0.125 mole CH<sub>2</sub>=CHCH<sub>2</sub>Br (I) in 90 ml absolute ether are added

dropwise 5 g SiCl<sub>h</sub>, the mixture is heated for 3-4 hours and allowed to stand for 12 hours, after which it is decomposed with a 25% solution of NH<sub>h</sub>Cl, containing ice. From the ether extract is obtained triallyl-chlorogilane, yield 5.21%, BP 103-105°/18 mm, n<sup>20</sup>D 1.4780, df<sup>0</sup> 0.9197. Analogously, from 6 g Mg, 30 g I and 5 g SiCl<sub>h</sub> was synthesized diallyl-tetrachlorosiloxane, yield 6.85%, BP 145°/17 mm, n<sup>20</sup>D 1.4930, df<sup>0</sup> 1.2155. From the oily material obtained by interaction

Card 1/2

- 94 -

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-

CIA-RDP86-00513R0012403

SHAPOSHNIKOVA, Z.B.; ABRAMOVA, M.A.; GOLOVIN, P.V.; PETRENKO, L.S.; GERASIMENKO, A.A.

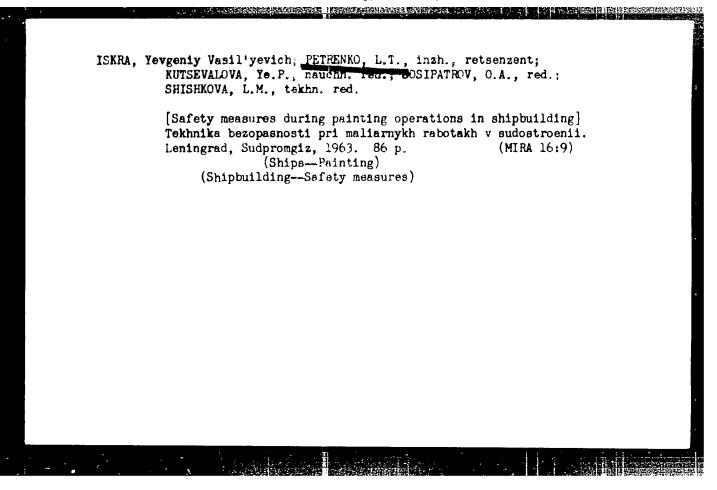
Conditions of the performance of ion exchangers in juice purification. Sakh. prom. 37 no.8:38-41 Ag '63. (MIRA 16:8)

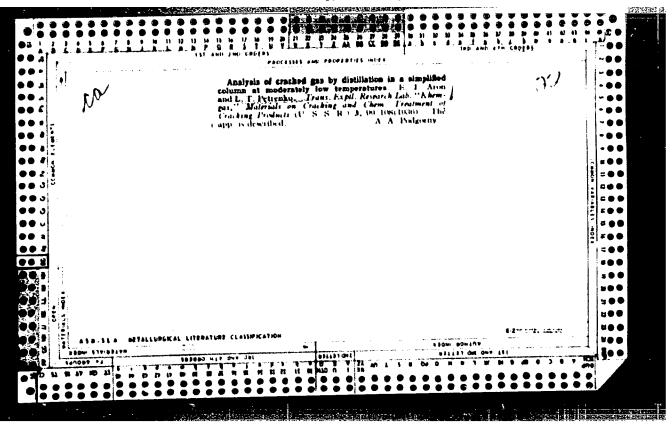
1. Institut mikrobiologii AN UkrSSR.
(Sugar manufacture)
(Ion exchanging substances)

GERASIMENKO, A.A.; ARRAMOVA, M.A.; PETRENKO, L.S.

Determination of the standard quality of sugar-beet juice.
Sakh.prom.35 no.3131-32 Mr '61. (MIRA 14:3)

(Sugar manufacture—Quality control)





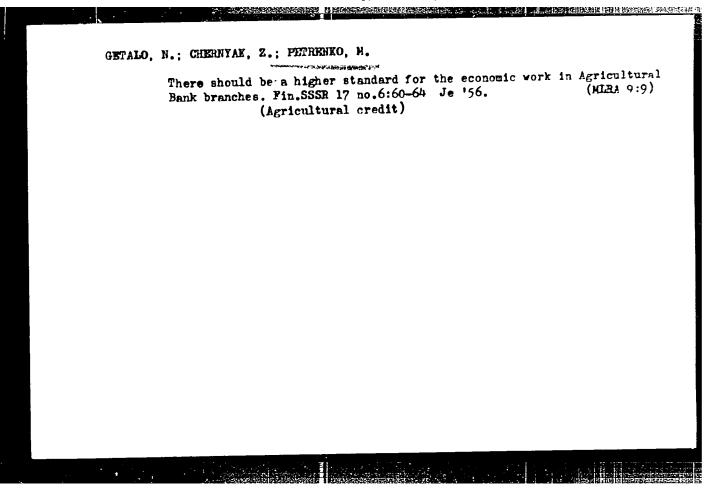
ROMANIKA, R., agronom; PETRENKO, M., inzh.

A complex of machines for growing and primary processing of fiber flax. Mekh. sil'. hosp. 13 no.4:14-16 kp '62. (MIRA 17:3)

PETRENKO, M.; KOBETS', I.

How compulsory education is organized in Yagotin. Mekh. sil'. hosp. 14 no.6:29-30 Je '63. (MIRA 17:3)

1. Korrespondent "Kiivs'koi pravdi" (for Petrenko). 2. Spetsial'nyy korrespondent "Mekhanizatsii sil's'kogo gospodarstva" (for Kobets').



OBRAZISOVA, A.A.; PETRENKO, M.B.; KLISHCHEVSKAYA, M.S.

Participation of rhizosphere micro-organisms in the nutrition and development of agriculturel plants grown in deep Chernozem soil. Trudy Inst. mikrobiol. no.11:81-90 '61 (MIRA 16:11)

1. Ukrainskiy nauchno-issledovatel skiy institut pochvovedeniya imeni A.N.Sokolovskogo.

CATEGORY	:	USSR Soil Science. Soil Biology.		<del>-</del>
ABS. JOUR.	:	Ministra, No. 4, 1959, No. 10 (1999)		
ACTOR TITLE		Petrenks, L.T. TRESIDENCE of Vegetable Paising and Property Local treatment for the Paising and The Caff leads on the last Development.		
ORIG. PUB.		Neuchn. tr. Uhr. ni. in-t ovoshoh kertofelya, 1957, 4, 231-232	vesti ation.  mem of the  ligher locaring  to ut manure  ive incredia-  of the micro-  to spara is to  il was bisher	, i
Card:		1/4		

O UNITEY CATE KAT : /ABS. JOER. : MERPALOL., de. 4, 1959, No. 1.50 A. H. P. INST. EJIS IT ORIG. PUB. : ABSTRACT : during plant vegetation. Introduction of fertilizers, emecially mineral ones, stimulated the . development of microorganisms both in the area around the root as well as in the root zones. disreflora of the reisesphere of the rotate, growing from tupers, developed better on mediawith starch and products of its hydrolysis. sacteria of the rhizosphere of the notato, grown from sprouts, preferred media with glucose and saccharoce, which, according to the author, have 1 Cond.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R0012

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1/4

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PETRENKO, M.B.; GIUSHCHENKO, V.V. (Hlushchenko, V.V.);

MAKHIN'KO, N.V. (Makhin'ko, N.M.)

Activity of microbiological processes in chestnit soils. Kikrobiol. zhur. 27 nc.6:16-20 '65. Misk 19:1.

1. Khar'kovskiy gosudarstvennyy universitet im. Gor'kogo.
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Firs DEC, Y.E., Cand Die Sei -- (dies) "Fierebiel gierl. traie of the potate rhizosphere." Ele phot, 195°. 19 yr (Pin of Agrical Cure MOTR.

The r'kov Order of Labor Red Benner Lagrant Durt in M.V.Delmon yev),

150 copies (EI,43-58, 115)

### "APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240 and the second s

PETRENKO, r. D. USSR/Medicine - Cl. perfringens

FD 145

Card 1/1

Author

: \*Nechayevskaya, M. R. and Petrenko, M. D.

Title

: Anaerobic infections in hibernating animals

Periodical: Zhur. mikrobiol. epid. i immun. 5, 9-11, May 1954

Abstract

: A state of hibernation was produced in susliks (Citellus citellus) by maintaining them at a temperature of 6-8°C. 17 susliks, 3 serving as control animals, were administered a predetermined lethal dose of Cl. perfringens. Only 3 of the 14 hibernating animals died. The control animals all died within 18-20 hours from gas gangrene. No infection developed in three of the hibernating animals that survived. The others developed only limited local infections at the injection site. These results, according to the authors, were attributable to the inhibition of the central nervous system during hibernation. No references are cited.

Institution: Anaerobic Division (Head-\*M. R. Nechayevskaya) of the Khar'kov Institute of Vaccines and Serums imeni I. I. Mechnikov (Director - Candidate

of Medical Sciences G. P. Cherkas)

Submitted

: August 12, 1953

PETRENKO, M.R

VOLOVICH, H.I.; KRASOVITSKAYA, A.M.; ZLATOPOL'SKAYA, R.D.; HIKULIHSKAYA, R.H.; PHTRENKO, M.D.; ZHUK, A.S.; CHERNYAVSKAYA, L.B.; GOL'DENBERG, R.A.

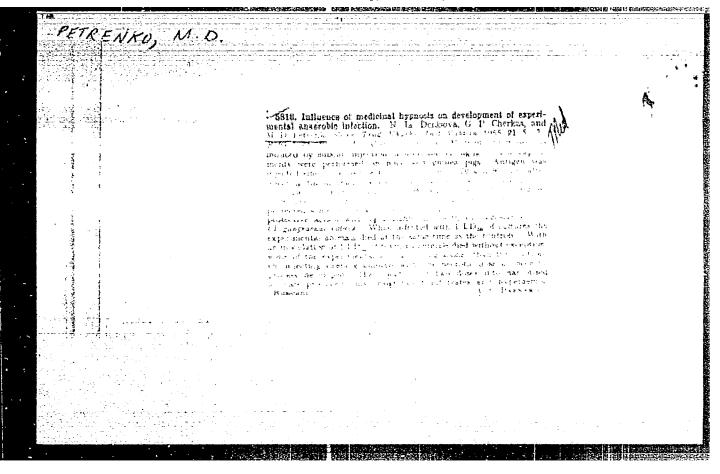
Studies on the efficiency of enteral immunization against dysentery with poly-antigen immunogen; aughore' abstract. Shur.mikrobiol.epid. i immun. no.8:32-33 Ag '54. (MIRA 7:9)

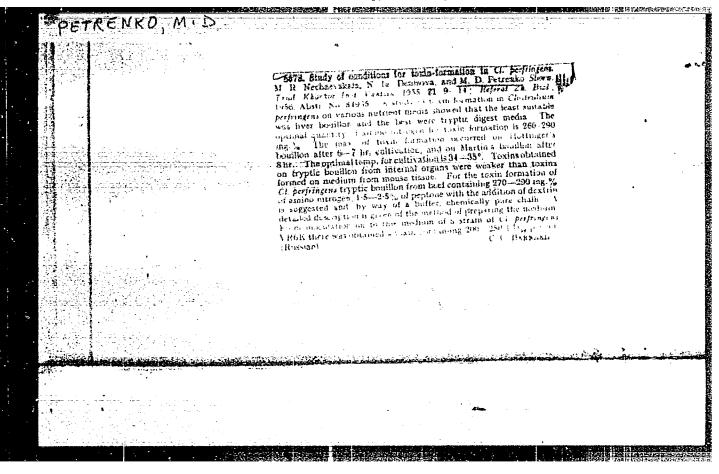
1. Iz Khar'kovskogo instituta vaktsin i syvorotok imeni Mechnikova (dir.kandidat biologicheskikh nauk G.P.Cherkas) i Khark'kovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach A.I.Stul'nikov)

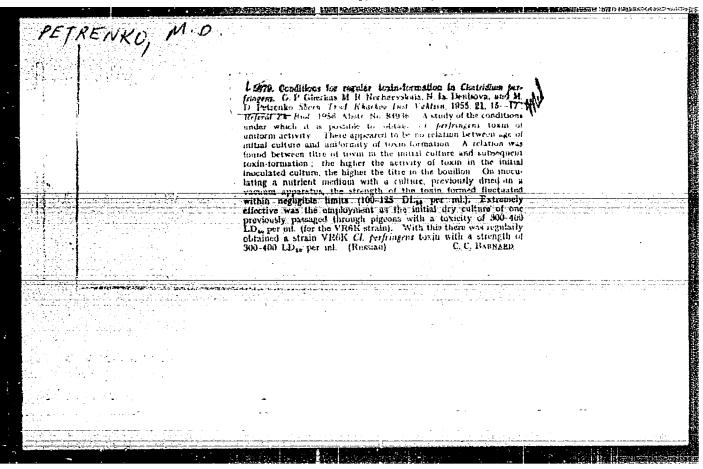
(DYSENTERY, BACILLARY, prevention and control,

\*poly-antigen immunogen)
(ANTIGENS AND ANTIBODIES,

\*poly-antigen immunogen in prev. of bacillary dysentery)

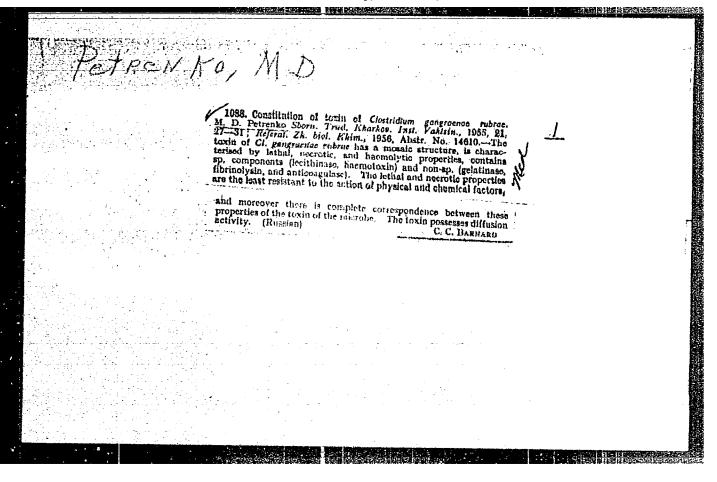


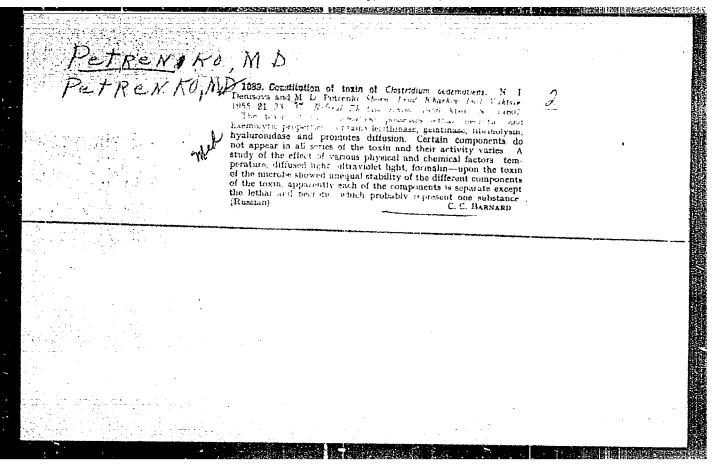




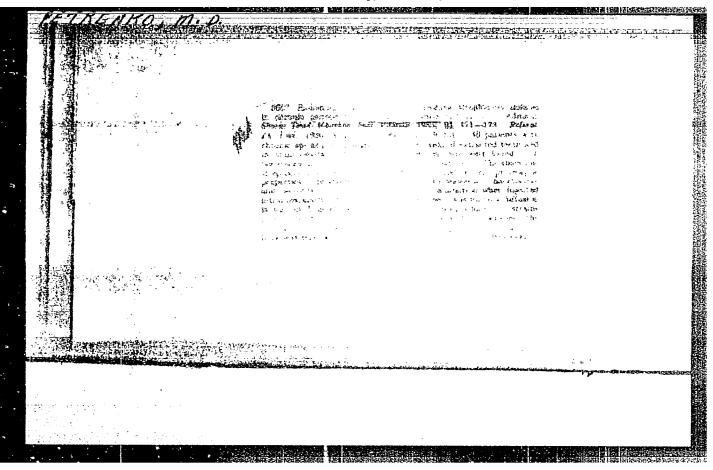
"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001240





"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240



KHAYKINA, A.S.; DUBRAVINA, G.I.; RACHINSKAYA, A.Z.; PETRENKO, M.D.; MITEL'MAN, P.M.; KHODOROVA, Z.N.; KATS, F.M.; KISELEV, R.I.; GAYDAMAKA, M.G.; VOLOVICH, B.I.; BEKKER, M.L.; GORDIYENKO, Ye.G.; VYSOCHINENEC, Ye.K.; TELESHEVSKAYA, M.A.; NAYDEROVA, Yu.T.

Production of the active fraction of hyperimmune horse sera by means of the alcohol precipitation method under a low temperature. Nauch. osn. proizv. bakt. prep. 10:159-167 '61. (MIRA 18:7)

1. Khar'kovskiy institut vaktsin i syvorotok im. Mechnikova.

## "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001240

S/198/62/008/905/008/009

AUTHOR: Botte, O. V.

TITLE: Dissertations defended in 1961 at the Institutes of the Division of Technical Sciences, AS UkrSSR, in the field of mechanics

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Instytut mekhaniky. Prikladna mekhanika, v. 8, no. 5, 1962, 571-575

YEXT: The following dissertations were presented by the collaborators of the above section and approved: Por the degree of Candidate of Technical Sciences: Instytut mekhaniky (Institute of Mechanics): Vasyl' Kykolayovych Buyrol. Aspirant: 'Plane problems of the theory of elasticity for multiply-connected regions with cyclic symmetry', on March 16, 1961, at Dmi, ropetrovek University. Yaroslav Nykhaylovych Hryhorenko, Junior Scientific Collaboraton: Stressed state of round plates and conical shells of Insarly varying thickness under asymmetric loads', on April 6, at Dmipropetrovek University. Igor Tymofiyovych Selezov, Aspirant, 'Investigation of the propa-Card 1/3

6.tion of clastic waves in plates and shells', on June 19, at Kyandriy Feofanovych Ulike, Aspirant, 'Solution of 3-dimensional
problems of the theory of clasticity by the method of vector eigenfunctions', on Jeptember 26, at Kiev University. Hikhaylo Petrovych
functions', on Jeptember 26, at Kiev University. Hikhaylo Petrovych
functions' in short rods of constant and variet thickgaytrivan Synyav'ka, Junior Scientific Collaborator, 'Transverse and longimess, due t Diapacto', on October 24, at Kiev University. Hariya
wear resistance of picton rings of integral comoustion engines
avtomobil'no dorozhnyy instytut (Kiev Institute of Automobiles and
and deformability of CCN (DSP) plastic in time at increased tenHighways. Heorkiy Ivanovych Rybenko, Emgineer, 'Change of strength
peratures', on Kovembor 28, at Kiev Institute of Automobiles and
cloktrosvarywannya in. Ye. O. Patona (Institute of Ribetrio Weldtific Collaborator, Candidate of Technical Sciences: Instytut
ing imeni Ye. O. Paton): Boris Oleksyovych Movehan, Senior ScienCard 2/3

- A TO SERVICE OF THE PROPERTY OF THE PROPERTY

5/198/62/008/005/008/009 D234/D308

Dissertations defended in ...

inhomogeneities in cast alloys', on May 16, at the Siberian sections of AS USSR. For the degree of Candidate of Technical Sciences: Instytut mashynoznavetva ta avtomatyky (Institute of Machine Science and Automation): Hryhoriy Semenovyen Kit, Junior Scientific Collaborator, 'Approximate solution of the problem of free torsion', on March 16, at Dmipropetrovek University. Hryhoriy Vasyl'ovych Plyatsko, Junior Scientific Collaborator, 'Nonstationary problems of neat conduction and thermoelasticity', on April 20, at the Institute of Mechanics of AS UkrSSR. Mykola Yuriyovych Shvayko, Aspirant, 'Some problems of elastoplastic torsion of prismatic rods', on December 25, at L'viv University. Instytut metalokeramiky is spetsial'nykh splaviv (Institute of Metal Ceramics and Special Alloys): Volodymyr Ivanovych Kovpak, Aspirant: 'Investigation of durable strength during programmed change of load and temperature', on October 23, at Kiev Polytechnic Institute.

Card 3/3

KACHOROVSKAYA, Ol'ga Vladimirovna, kand. med. nauk; FETRENKO,
Marina Feofilova; MUNAVOV, 1.V., red.

[Fizysical education as a means of preventing premeture age-connected changed Fizioneskala kul'tura
kak procetvo predujezanion in prenhevementnyh vozrastnykh izmenenii. Kiev, Zuprov'ia, 1962. 4° p.

(MIRA 18:1)

PETRENKO, M.I., kand. sel'skokhoz. nauk

Mixed sowing of annual grain crops and legimes as a way for increasing the production of protein-rich feeds. Nauk. pratsi
(UASHN 17 no.12:81-83 '60. (MIRA 16:7)

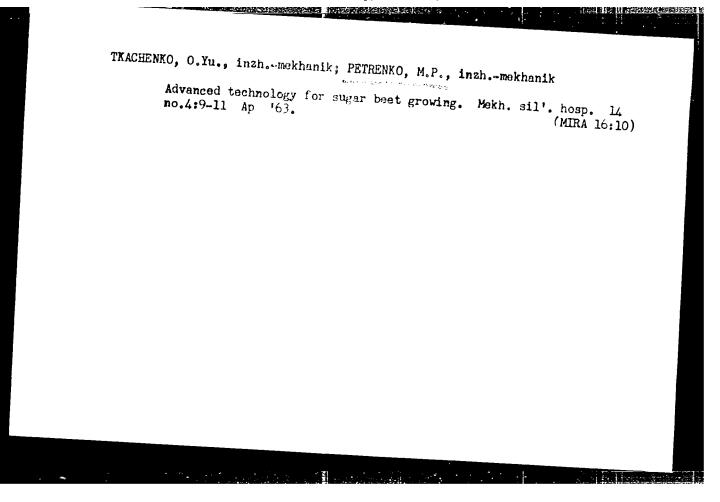
(Ukraine—Legimes)
(Ukraine—Corn (Maize))

```
PETRENKO, M.P. (Kivev)

Vibrations of a rigid vessel filled with outflowing liquid.

Frikl. mekh. 1 no.8:136-138 '/5. (MIkk j8:0)

1. Institut mekhaniki AN Ukrosf.
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PETRENKO, M.P. (Kiyev); KOMISSAROVA, G.L. (Kiyev)

Nonlinear vibrations of clustic road. Prikl.mekt. 1:c. 0:210-121 465.

1. Institut mekhaniki AN Earsop.

(MIRA 18:8)

s/0198/64/010/003/0337/0340

ACCESSION NR: AP4037994

AUTHOR: Petrenko, M. P. (Kiev)

TITLE: Distrubance waves in plates of variable thickness in the presence of longitudinal oscillations

SOURCE: Pry kladna mekhanika, v. 10, No. 3, 1964, 337-340

TOPIC TAGS: wave front, disturbance, oscillation, vibration, elasticity, longitudinal wave, longitudinal oscillation, Kilchevskiy algorithm, propagation, propagation velocity, wave propagation

ABSTRACT: By means of N. A. Kil'chevskiy's algorithm the author obtained a system of differential equations which describes the longitudinal oscillation of a plate with variable thickness. The differential equation for determination of the characteristics curves was composed by the method of characteristics. For the case of an axially-symmetric plate an expression was obtained for the velocity of the longitudinal disturbance waves distributed in concentric circles from the axis of symmetry. It is shown that the influence of the form of the curve of the wave front on the velocity of propagation is substantial only at the start of motion. Orig.

ord 1/2

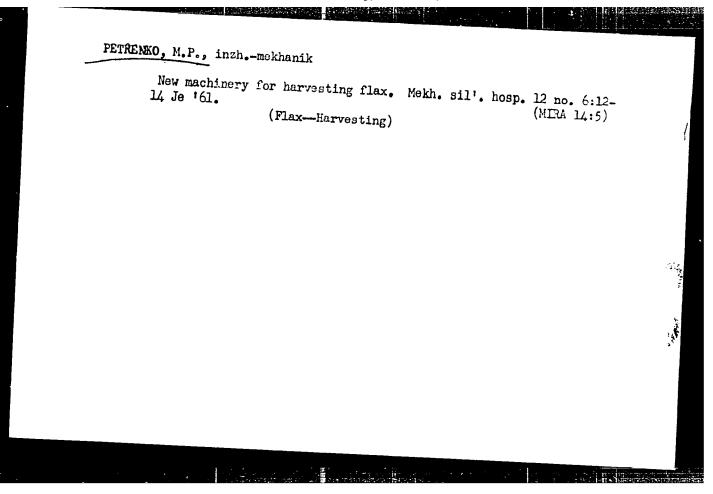
APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-R

CIA-RDP86-00513R001240

ACCESSION NR: AP403		•
ASSOCIATION: Insty*	tut mekhaniky AN URSR (Institute of	Mechanics AN URSR)
SUBMITTED: 17Jun63 SUB CODE: AS, GP	DATE ACQ: 12Jun64	ENCL: 00
as, GP	NO REF SOV: 003	OTHER: 000

# Approximate solution of the precise functional equation in the theory of impact. Prykl.mekh. 7 no.5:563-565 \*61. (MIRA 1420) 1. Institut mekhaniki AN USSR. (Impact)

# PETRENKO, M.P. Efficient utilization of beet harvesting machinery. Mekh. sil'.hosp. 12 no.8:10-12 Ag '61. (MIRA 14:7) 1. Glavnyy spetsialist po mekhanizatsii tekhnicheskikh kul'tur ob"yedineniya "Ukrsel'khoztekhnika", (Sugar beets--Harvesting)



The second secon

PETRENKO, M.P. (Kiyev)

Lateral vibrations of short bars caused by their collision with an elastic solid. Prykl.mekh. 7 no.2:171-179 6. (MFA 14:4)

1. Institut mekhaniki AN USSR.
(Elastic rods and wires--Vibration)

L 2h198-65 ENT(6)/EMP(w)/EMP(w)/EMP(v)/EMP(k)/EMA(h) Pf-h/Peb EM ACCESSION NR: AP5000112 8/0198/64/010/006/0660/0663

AUTHOR: Kil'chevs'kyv, M. O. (Kilchevskiy, N. A.) (Kiev); Petrenko, M. P. (Kiev); Barsuk, R. P. (Kiev); Babych, D. V. (Babich, D. V. (Kiev)

TITIE: Approximate longitudinal and radial vibration analysis of a system of 3 cylindrical shells partly liquid filled 26

SOURCE: Prykladna mekhanika, v. 10, no. 6, 1964, 660-663

TOPIC TAGS: cylindrical shell, cylindrical shell vibration, liquid filled shell, oscillatory system, elasticity theory

ABSTRACT: The longitudinal and radial vibrations of a system of cylindrical shells partly filled with an inviscid incompressible liquid are investigated. The case of potential motion of the liquid is analyzed. For setting up the equations of motion the authors used the energy methods of elasticity theory and the variational principles of analytical mechanics. In the examined nemerical example, consideration of the effect of the liquid and of the elasticity of the bottoms leads to a diminution of basic natural frequency by 6%, but neglect of radial displacements of shells leads to an increase in natural frequency of 18%. Orig.

Card 1/2

L. 2h198-65
ACCESSION MR: AP5000112
ASSOCIATION: Institut mekhaniky AN URSR (Institute of Mechanics, AN URSR)
SUMMITTED: O5Dec65 ENUL: O0 SUB CODE: ME
NO REF SOV: O06 OTHER: COO

KIL'CHEVSKIY, N.A. [Kil'chevs'kyi, M.O.] (Kiyev); PETRENKO, M.P. (Kiyev);
BABICH, D.V. [Babych, D.V.] (Kiyev)

Longitudinally radial vibrations of a system of cylindrical shells with concentrated masses in joints. Prykl. mekh. 9 no.6:677-683 '63. (MIRA 16:12)

1. Institut mekhaniki AN UkrSSR.

PETRENKO, M.P. (Kiyev)

Perturbation waves in plates of variable thickness subjected to longitudinal vibrations. Prykl. mekh. 10 no.3:337-340 '64.

1. Institut mekhaniki AN UkrSSR. (MIRA 17:6)

PETRENKO, M. P.

Cand Phys-Math Sci - (diss) "Longitudinal and transverse vibrations arising in short rods of constant and variable thickness under the influence of sudden impacts." Kiev, 1961. 6 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin State Univ imeni T. G. Shevchenko); 180 copies; price not given; (KL, 10-61 sup, 205)

U--1 USSR/General Problems of Pathology - Shock : Ref Zhur - Ricl., No. 18, 1958, 84815 Mbs Jour : Nechayevskays, M.R., Petrenko, M. D. Khar'kov Scientific Research Institute of Vaccines Author Inst The Significance of Shock in the Development of Gas Title Gangrene Tr. Khartkovsk. n.-i. in-ta vaktsin i syvorotok, 1957, Orig Pub Vol. 24, 31-33 : Rabbits were given sublethal doses of cultures of Clostridium perfringens, and within an hour were led Abstract into shock by the injection subcutaneously of six to eight units of insulin. In prolonged shock lasting 13-15 minutes, all ten animals died of gas gangrene. With shock lasting six to seven mimites (following the subcutaneous injection of 0.5 ml adrenalin in a 1:1000 solution and the intravenous injection of 15-25 ml of a 10 percent solution of glucose (i.e. to Card 1/2 17

The second secon

S-5

letion to, m.D.

USSR/Morphology of Man and Animals - (Normal and Pathologic)

Pathologic Anatomy.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 12482

Author : Nechayevakaya, M.P., Toropova, M.N., Petrenko, M.D.

Inst :

Title : Changes in Tissues and Organs Caused by Cl. gangraenae

rubrae

Orig Pub : Sb. tr. Khar'kovsk. n.-i in-ta vaktsin i syvorotok, 1955,

21, 109-112

Abstract : A study was made of the tissues and organs of 25 guinea

pigs that died after an intramuscular injection of a Cl. gangraenae rubrae culture. The site of injection was bright red. The muscles, that were a rich red in color, had a small amount of fluid between their fibers. The liver was enlarged and brown on cut surface. Degenerative changes characterized by swollen ganglion cells, smoothed out contours and chromatolysis were found in the brain.

Card 1/2

IMEMIDENEO, T.T.: PETRENEO, M.I., kand, sel'skokhozyaystvennykh nauk.

Companion cropping as a means of increasing protein feeds.

Zemledelie 5 no.12:52-55 D '57. (MIRA 11:1)

1.Chlen-korrespondent AN USSR (for Demidenko). (Proteins) (Companion crops)

is the property of the propert

PETRENKO, M. I.

"The Effect of Root Nourishment on the Yield and Quality of Kok-Saghyz." Cand Agr Sci, Kiev Agricultural Inst, Kiev, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions. (10)

So: Sum. No. 481, 5 May 55

DIMIDENSO, T.T.; PETRENSO, M.I., kandidat sel'skokhozyaystvennykh nsuk.

Dense stands of corn in the Ukrainian S.S.E. Zemledelie 4 no.11:
75-78 N '56.

1. Chlen-korrespondent Akademii nsuk USSR. (for Demidenko).

(Ukraine--Corn (Maize))

### PETRENKO, N. I.

Modifications of the cardiovascular system of rheumatic children due to sulfa baths. Yopr. pediat. 18:3, 1950. p. 3-8

1. Of the Children's Clinic (Head-Candidate Medical Sciences V. S. Gvantseledge), State Balmeological Scientific-Research Institute immed I. V. Stalin (Director-Candidate Medical Sciences S. A. Chiefmaritov).

CIML 19, 5, Nov., 1950

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

「シンチンと」と記っています。

Condition of the cardiovascular system during pneumonia in young children. Pediatriia 39 no.1:19-23 Ja-F'56. (MIRA 10:1)

1. Iz kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR professor G.N.Speranskiy) TsIU (dir. V.P.Lebedeva) na baze detskoy bel'nitsy imeni F.B.Dzerzhinskogo.

(PMEUMONIA, manifest. cardiovas. system. in inf.)

(CARDIOVASCULAR SYSTEM., in various dis. pneumonia, in inf.)

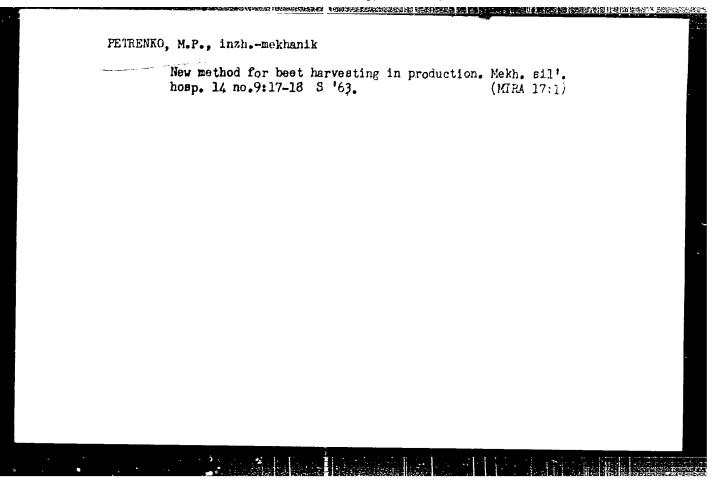
PETRENKO, M.L., kand.sel'skokhozyaystvennykh nauk

Companion cropping as a means of increasing the production of protein enriched feeds. Nauch. trudy UASHN 10:41-47 '60.

(MIRA 14:3)

(Forage plants)

(Companion crops)



PETRENKO, M.P. (Kiyev)

Natural vibrations of a point of variable mass and the method of "hardening". Prikl. makh. 1 no.2:125-128 '65. (MIRA 18:6)

- Towns as Branch Land Market Services

1. Institut mekhaniki AN UkrSSR.

TKACHENKO, O.Yu., inzh.; PETRENKO, M.P., inzh.

Using new machinery in sugar beet cultivation. Mekh. sil'.
hosp. 12 no. 1:27-29 Ja '61.
(Agricultural machinery) (Sugar beets)

(Agricultural machinery)

KRIVENTSOV, M.I.; PETRIPNKO, M.V.; KHOMENKO, A.N.

Comparison of the accuracy of basic methods of forecasting the water salinity of reservoirs. Gidrokhim. mat. 371.9-55 '64.

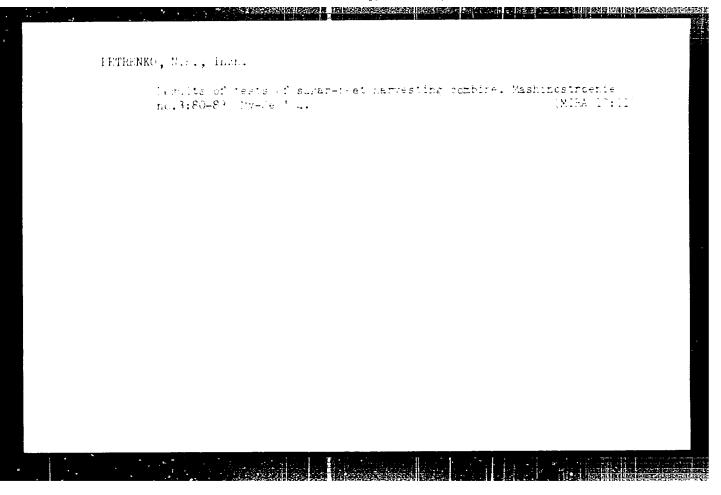
(MTRA 18:4.)

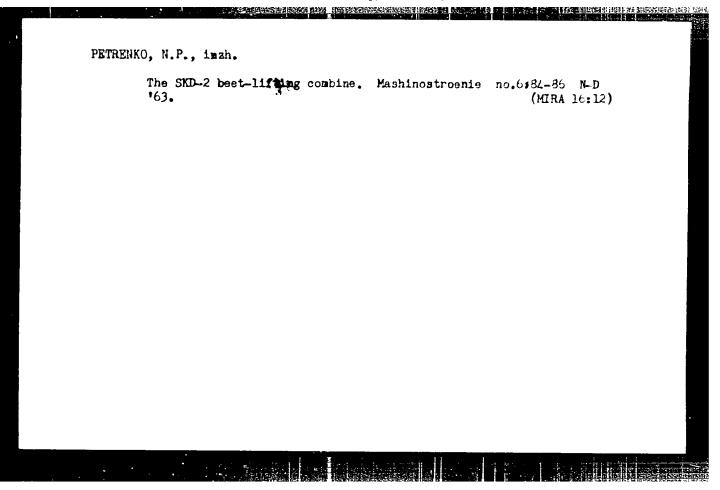
1. Gidrokhimicheskiy institut Glavnog. upravlaniya.gtirorstagrologicheskoy sluzhby pri Sovete Ministrov SSSR., hovocnerkassk.

REPORT OF THE PROPERTY OF THE : 1 ;≀ Coulty: : Meadow Cultivation. CATEGORY ABS. JOUR. : RZBiol., No. 4, 1959, No. 15525 : Petrenko, M.P. : Inst. of Experimental Biology, AS Kazako SSR AUTHOR :Information on the Mineral Composition of INST. Grassland Forage in the Mountain and Desert TITLE Zones of Kazakhstan. ORIG. PUB. : Tr. In-ta eksperim. biol. AN KazSSR, 1958, 4, 67-73. : The grasses and forbs of the mountain pastures on the northern slopes of the Trans-ABSTRACT Ili River part of the Altay are distinguished by their high calcium content and comparative lack of phosphorus, as a result of which the

calcium to phosphorus ratio can reach ll:1.
During dry years many valuable fodder grasses in the deserts drop out of the composition of the forage vegetation, the fodder becoming rich in ash (11.1-20%) and callulose, and

CARD: 1/2



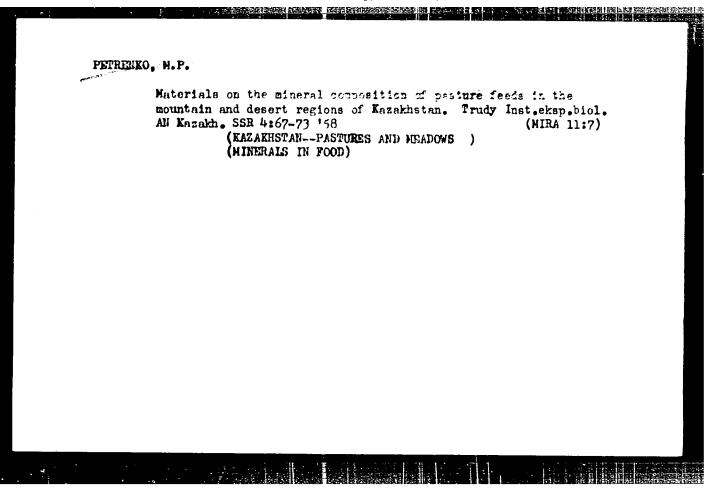


PETRENKO, M.P., ingh.-mekhanik

Methods of harvesting sugar beets. Mekh. sil!.hosp. ll no.8:27-28

Ag '60.

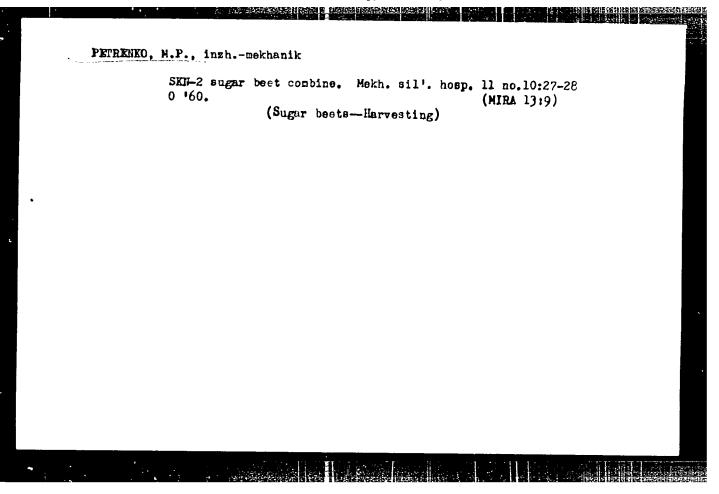
(Sugar beets-- Harvesting)



# PETREIKO, M.P. (Kiyev)

Stress waves in case of longitudinal vibrations of rods with variable thickness. Izv.AN SSSR. Otd.tekh.nauk.Nekh.i mashinostr. no.5:160-161 S-0 \*60. (MIRA 13:9)

1. Institut mekhaniki AN USSR.
(Elastic rods and wires---Vibration)



SAKUN, I.F. naukovyi spivrobitnik; KUTSURUBA, M.V., naukovyi spivrobitnik;

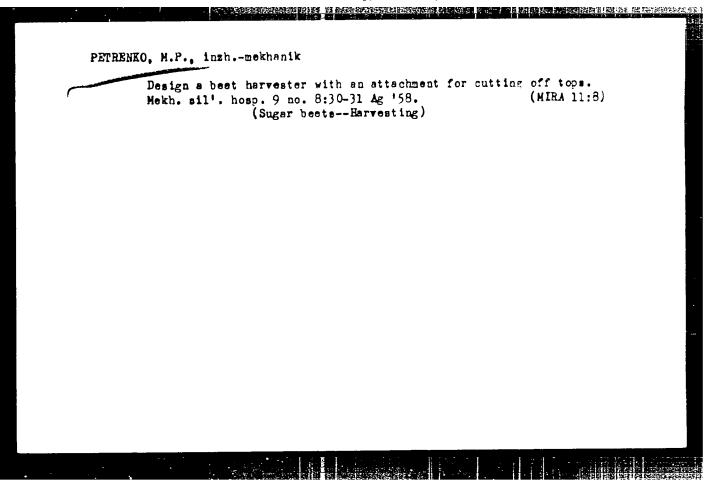
PETRE:KO, M.P., inzh.-mekhanik

Labor required in the over-all mechanization of sugar beet growing.

Mekh. sil'. hosp. [9] no.5:14-15 My '58. (MIRA 11:6)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly.

(Ukraine-Sugar beets) (Labor productivity)



L 23937-65 EJT(m)/ZJP(b)/T/EJP(t) Pad IJP(c) JD/HV ACCESSION NR: AP5001557 S/0185/64/009/012/1371/1373

AUTHOR: Pavlyuk, A. O.; Petrenko, M. S.; Pervakov, V. O.; Khotkevych, V. G.

TITLE: On some peculiarities of the temperature dependence of the increase of the electrical resistivity of the deformed alloy Fe + 50% Ni at low temperatures

SOURCE: Ukrayins'kyy fizychnyy zhurnal, v. 9, no. 12, 1964, 1371-1373

TOPIC TAGS: resistivity of deformed alloy, martensitic phase formation, ferrous nickel alloy

ABSTRACT: In the <u>iron-nickel</u> alloy with the nickel content below 40%, martensitic transformation is observed on cooling to a sufficiently low temperature. At higher nickel concentrations, this transformation does not take place. However, it can be expected that deformation and cooling will produce in these alloys local formation of martensitic phase. As an indication of the new phase formation, the electrical resistivity was measured (see L. Kaufman and M. Cohen, Trans. Amer. Inst. Min (Metall.) Eng. 206, 1393 (1956)). Fe + 50% Ni alloy was pre-

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ACCESSION NR: AP5001557

pared in the form of wires of 0.2 mm diem, and pressed between metal plates, and the resistance compared with that of annealed specimens. It was found that in specimens which were deformed and measured at -196 C, the increase of resistivity was noticeably greater than in specimens which were deformed at room temperature and measured at -196 C. This is attributed to local martensitic phase formation. The authors are grateful to Y. L. Mirkin for the Fe-Ni alloy. Orig, art. has: I figure

ASSOCIATION: Kharkivs'kyy derzhuniversytet im. O. M. Gor'kogo (Khar'kov State University)

SUBMITTED: 10Jul64

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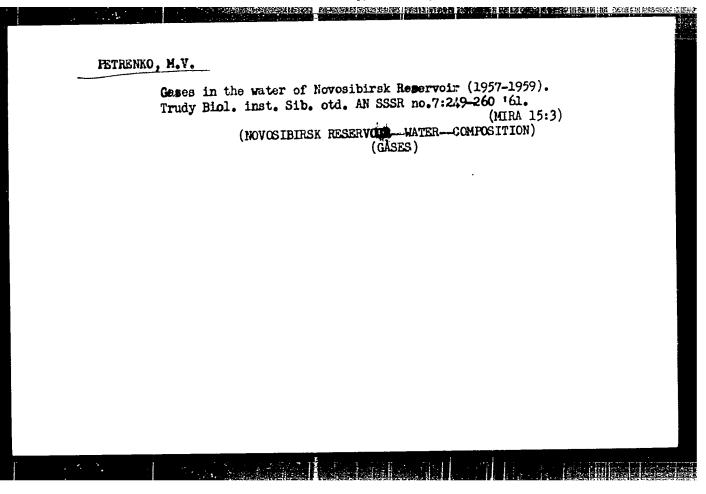
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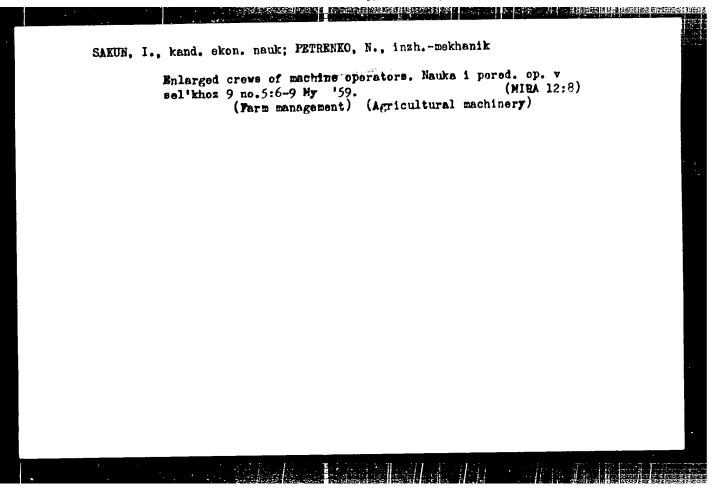
PETRENKO, M.V.

Content of biogenous substances and fluorine in the water of the Novosibirsk Reservoir. Gidrokhim.mat. 36:101-116 '64.

(MIRA 18:11)

1. Khimikometallurgicheskiy institut Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted May 9, 1961.





ILYAVIR, I., nauchnyy sotrudnik; PETRENKO, N., ingh.

Semicontinuous method of harvesting beets is most efficient.

Nauka i pered. op. v sel'khos. 8 no.10:13-15 0 '58. (MIRA 11:11)

(Sigar beets-Harvesting)

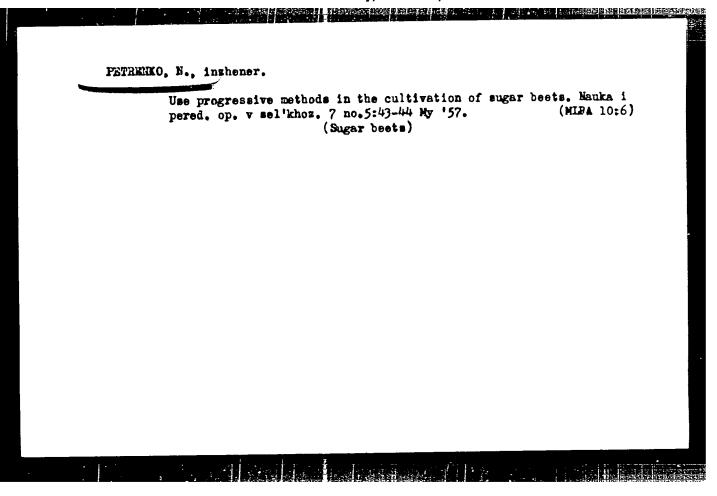
KONOVALOV, M., starshiy nauchnyy sotrudnik; PETRINKO, N.

Over-all mechanization of sugar best growing drastically reduces costs. Nauka i pered, op. v sel'khoz. 8 no.5;38-41 My '58.

(MIRA 11:5)

1. Vessoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly (for Konovalov). 2. Starshiy inzhemer upravleniya novoy tekhniki Hinisterstva sel'skogo khozyaystva USSR (for Petrenko).

(Sugar beets) (Agricultural machinery)



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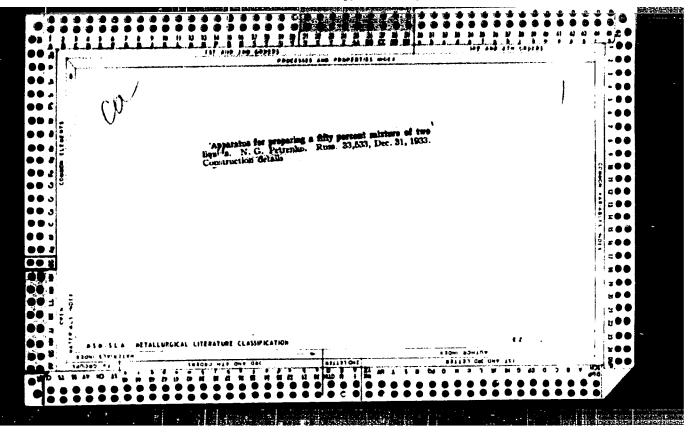
Nikolai Petrenko., Sov. svias., No. ĉ, 1951.

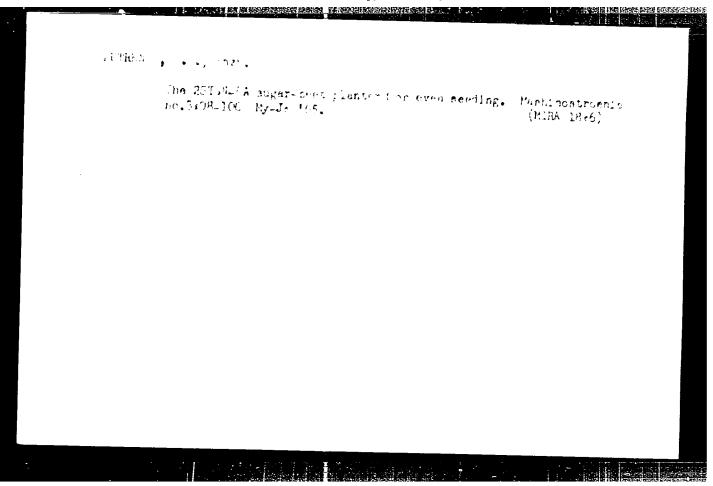
9. Monthly List of Russian Accessions, Library of Congress, March 1952. 1953, Uncl.

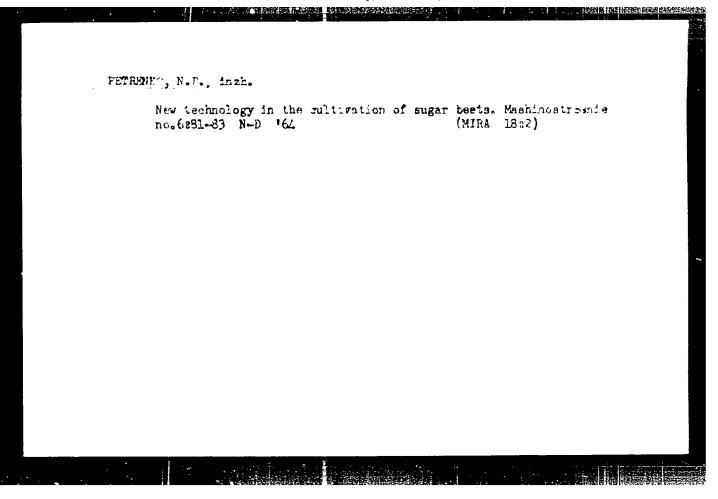
# PETRENKO, N. D.

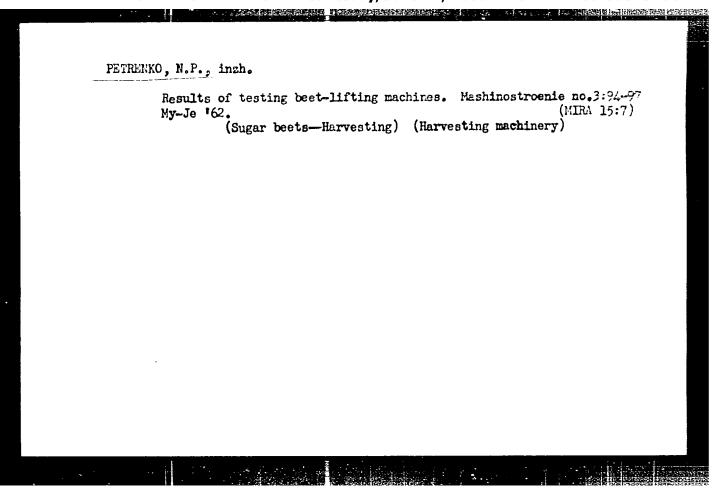
"Gangrene Rubre Clostridium -- Cause of Annerobic Infection." Sand Res Sci, Khar'kov Medical Inst, Khar'kov, 1955. (RZhBiol, No., Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).









TYAZHELOV, Vadim Innokent'yavich; SAVRL'YEV, A.G., retmenzent; NAUMOV, M.K., retmenzent; LI, M.V., retmenzent; MASHUKOV, I.F., retmenzent; MYAKON'KIY. A.I., gornyy inzh., retmenzent; KULRYASHOV, V.A., dotsent, retmenzent; PRTRKNKO, N.P., red.; SOROKIE, T.I. teknn.red.

CHARLES IN EMPEREMENT OF A

[Working a deposit by open-pit mining in the wintertime] Razrabotka mestorozhdenii otkrytym sposobom v zimnii period. Irkutsk, Irkutskos knizhnos izd-vo, 1958. 127 p.

(MIRA 14:5)

1. Gornorudnyy kombinet Irkutskogo sovnarkhoze (for Savel'yev, Maumov, Li, Mashukov, Myakon'kikh, Kudryashov) (Strip mining--Cold weather conditions)

BATENCHUK, Yavgeniy Nikanorovich; PETRENKO, N.P., red.; SHTAMBOK, L.H., tekhn.red.

[Suggestions for greater efficiency in building the Irkutak Hydroelectric Power Station] Ratsionalizatsiis na stroitel'atve Irkutakoi GES. Irkutak, Irkutakoe knizhnoe izd-vo, 1958. 28 p.

(MIRA 14:1)

(Irkutsk Hydroelectric Power Station)

RESSONOVA, Avgusta Spiridonovna; BENESLAVSKIY, S.I., red.; PETRENKO, N.P., red.; SOROKINA, T.I., tekhn.red.

[Aluminum raw materials of the Irkutsk Province and possible ways to use them] Aliuminievoe syr'e Irkutskoi oblasti i vozmozhnye puti ego ispol'zovaniia. Pod red. S.I.Beneslavskogo. Irkutsk, Irkutskoe knizhnoe izd-vo, 1958. 41 p. (MIRA 13:8) (Irkutsk Province--Aluminum silicates)

LACHINOV, Nikolay Vladimirovich; NEBRAT, L.Ye., red.; PETRENKO, N.P., red.; SOROKINA, T.I., tekhn.red.

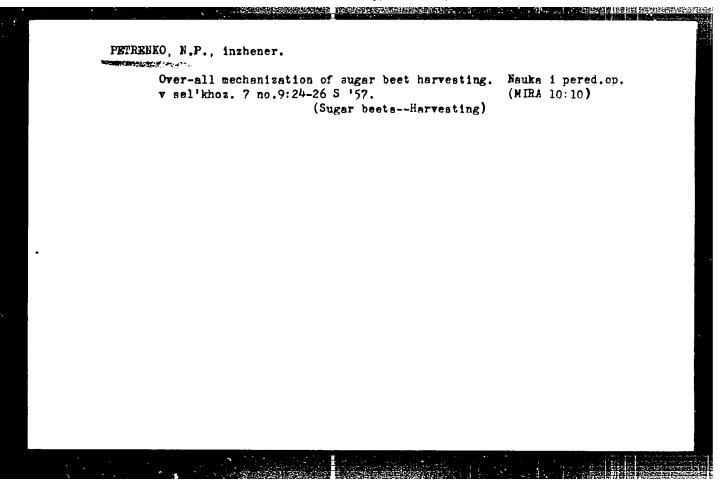
[Maintenance and repair of bearings of auxiliary mechanical equipment of thermoelectric power plants] Remont i nadzor za podshipnikami vspomogatel'nykh mekhanizmov teplovykh elektrostantsii. Irkutskoe knizhnoe izd-vo. 1958. 97 p. (MIRA 12:6) (Electric power plants--Equipment and supplies) (Bearings (Machinery)--Maintenance and repair)

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SLAVNIN, Geliy Porfir'yevich; PETRENKO, N.P., red.; PECHERSKAYA, T.I., tekhn.red.

[New methods of studying flotation; tagged atoms and high-speed motion pictures] Novye metody izucheniia flotatsii; mechanye atomy i skorostnaia kinos memka. Irkutsk, Irkutskoe knizhnoe izd-vo, 1959. 103 p. (MIRA 13:2) (Flotation) (Radioisotopes--Industrial applications) (Motion pictures in industry)



MAKHNEV, Vasilly Mikhsylovich; FETRENKO, N.P., red.; PECHEHSKAYA, T.I., tekhm. red.

[High-speed reaming of steel] Skorostnoe razvertyvanie stali.
Irkutsk, Irkutskoe knizhnoe izd-vo, 1960. 175 p.

(MIRA 14:9)

(Reamers) (Metal cutting)

ABAKUMOV, Ivan Ivanovich; PETRENKO, N.P., red.; PECHERSKAYA, T.I., tekhn. red.

[Industrial methods in sanitary engineering; from practices of the assembling office of construction in Angarsk] Industrial nye metody santekhnicheskikh rabot; iz opyta raboty montazimoi kontory stroitel stva Angarska. Irkutsk, Irkutskoe knizhnoe izd-vo, 1959. 86 p. (MIRA 17:2)

IVAKHNYUK, V.A., unah.; MUNATOW, i.G., inch.; Chirman, M.M., inch.

LOBOYKC, V.N., inch.; PETERREC, R.F., inch.; KOMERCY V. F.A.,
inzh.

Precast and monolithic caisaons in the building for the unit.al
crushing of ore. From. stret. 42 no. 6-15-17 tos.

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1. Belgorodskiy otdel instituta kburikevskiy richstryn. 1000-000
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KHVOROSTUKHIN, Lev Alekseyevich; PROMPTOV, Aleksandr Innokent'yevich; PETREN-KO, N.P., red.; KOVALEV, S.R., tekhn. red.

[Turning of hard-to-machine steels] Tochenie trudnoobrabatyvaemykh stalei. Irkuts, Irkutskoe knizhnoe izd-vo, 1959. 25 p. (MIRA 14:10)

(Turning) (Steel alloys)

S/126/61/012/003/020/021 E073/E335

AUTHORS: Pervakov, V.A., Petrenko, N.S. and Khotkevich, V.I.

TITLE: Influence of the plastic deformation on eliminating

excess vacancies in quenched gold

PERIODICAL: Fizika metallov i metallovedeniye, v. 12, no. 3, 1961, 460 - 461

TEXT: According to M.A. Bol'shanina (Ref. 1 - Ivz. AN SSSR, ser. fiz., 1950, 14, 223) plastic deformation of metal does not only cause formation of crystal-lattice distortions but also leads to their elimination. According to published work a sufficiently high deformation at room temperature in Al and Au leads to a decrease in the concentration of the excess vacancies. Data are given in this paper on the influence of deformation, at the rate of 10%/min and 10<sup>5</sup> %/min (impact) at 20 and -196 °C, on the increase in the resistance caused by preliminary quenching. The investigations were made on 60 mm long, 0.05 mm dia. wire, made of pure gold (99.99%), which was determined by compressing the wire with two polished steel plates. The quenching was by rapid submersion of the specimens in water. Fig. 1 shows the dependence Card 1/42

S/126/61/012/003/020/021 E073/E335

Influence of the ....

of the relative increase in the resistance as a function of the  $\ensuremath{\text{e}}$ rate of deformation for specimens which were annealed prior to the experiments (Curve 1) and for specimens which were quenched prior to the experiments (Curve 2); these curves were obtained at low rates of deformation at room temperature. In the medium range of deformation rates intensive elimination of vacancies occurs and at high rates of deformation excess vacancies are completely absent and the process of deformation is practically the same in the quenched and annealed specimens. Fig. 2 shows similar curves plotted for specimens which were deformed by impact (rate of deformation 10<sup>5</sup> %/min) at room temperature. of the possibility of the specimens being heated during the process of deformation, an appreciable elimination of the vacancies occurs at considerably higher rates of deformation. Curves are also given in the paper for specimens deformed at -196 °C; at this temperature practically no elimination of vacancies was observed. Assuming that the behaviour of the excess vacancies during deformation does, to some extent, reflect the behaviour of the vacancies forming during the deformation Card 2/4/2

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S/126/61/012/005/020/021 E075/E335

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process itself, it can be anticipated that for annealed Au specimens which are slowly deformed at room temperature the contribution of the vacancies to the increase in the electric resistance at low degrees of deformation will be greater than at high degrees of deformation. Specimens deformed at low temperatures or specimens deformed by impact at room temperature should contain more vacancies than specimens deformed at a low rate at room temperature. These conclusions on the vacancies are also applicable—to other point defects which have a lower temperature stability than vacancies.

There are 3 figures and 5 references: 2 Soviet-bloc and 3 non-Soviet-bloc. The three English-language references mentioned are: Ref. 2 - M. Wintenberger, Symposium by the Institute of Metals, Dec., 1957, London, 1958, 201; Ref. 3 - M. Wintenberger - Acta met., 1959, 7, 549 and Ref. 5 - R. Maddin, A. Cottrell - Phil. Mag., 1955, 46, 755.

ASSOCIATION:

Khar'kovskiy gosuniversitet im. A.M. Gor'kogo (Khar'kov State University im. A.M. Gor'kiy)

SUBMITTED:

April 27, 1961

Card 3/43

GUTERMAN, M.B.; MIRKIN, I.L.; PAVLYUK, A.A., PERVAKOV, V.A.; PETRENKO, N.S.; KHOTKEVICH, V.I.

Certain characteristics of Ni-Cr, Ni-Cr-Mo, and Fe-Ni-Cr-Mo alloys bound in the K-state. Fiz.-met. i metalloved. 20 no.5:733-740 N \*65. (MIRA 18:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya, Moskva, i Khar'kovskiy gosudarstvennyy universitet imeni A.M.Gor'kogo. Submitted August 6, 1964.

PETRENKO, N.S., inzh.; MAKSIMENKO, I.N., inzh.

Possibility of increasing the durability of drilling steel. Gor. zhur. no.7:40-44 J1 '63. (MIRA 16:8)

1. Nauchno-issledovatel skiw rown ordnyy institut, Krivoy Rog.

EWT(m)/EWP(w)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(h) L 14998-66 IJP(c) JD/HW/JG ACC NR: AP5028563 SOURCE CODE: UR/0126/65/020/005/0733/0740/ AUTHOR: Guterman, H. B.; Mirkin, I. L.; Pavlyuk, A. A.; Pervakov, V. A.; Petrenko, ORG: Tanii of Technology and Machine Building, Moscow (Tanii tekhnologii i mashinostroyeniya); Kharkov gosumiversitet im. A. H. Gor'kiy (Khar'kovskiy gosumiversitet) TITIE: Certain features connected with the K-state in Ni-Cr, Ni-Cr-Mo and Fe-Ni-SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 5, 1965, 733-740 TOPIC TAGS: metal physics, ordered alloy, mechanical property, resistivity, nonferrous metal alloy, ferrous alloy, metal heat treatment, heat resistant alloy, high temperature strength, metal hardening ABSTRACT: Changes in electrical resistivity in Ni + 15% Cr, Ni + 15% Cr + 18% Ho and Fe + 25% Ni + 16% Cr + 6% Mo alloys were studied as a function of low temperature deformation (from +20° to -196°C) and annealing rate (from 2 to 10<sup>6</sup> deg/min).

Decomposition of the K-state in the alloys was observed. The effect of the K-state on high temperature strength was also noted. The K-state causes microscopic inho-Card 1/2 UDC: 539.4.015